LISTING OF THE CLAIMS

Claims 1-29 (Cancelled.)

30. (Previously Presented) A method of forming a MOS transistor on a semiconductor material of a first conductivity type, the semiconductor material having a top surface, the method comprising:

forming a first material on the top surface of the semiconductor material; removing a portion of the first material to expose a region of the top surface of the semiconductor material and leave a remaining portion of the first material on the top surface of the semiconductor material;

forming a semiconductor layer of the first conductivity type on the top surface of the semiconductor material, the semiconductor layer including silicon, germanium, and carbon;

removing the remaining portion of the first material from the top surface of the semiconductor material;

forming a layer of insulation material over the semiconductor layer; forming a layer of conductive material on the layer of insulation material; and removing a portion of the layer of conductive material to form a gate.

- 31. (Previously Presented) The method of claim 30 wherein the semiconductor layer is selectively epitaxially grown.
- 32. (Previously Presented) The method of claim 31 and further comprising forming spaced-apart source and drain regions of a second conductivity type in the semiconductor layer.

SUPPLEMENTAL AMENDMENT IN RESPONSE TO OFFICIAL ACTION MAILED AUGUST 23, 2005

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33. (Previously Presented) The method of claim 31 and further comprising forming a layer of silicon free from germanium and carbon on the semiconductor layer before the remaining portion of the first material is removed, the layer of insulation material contacting a top surface of the layer of silicon.

- 34. (Previously Presented) The method of claim 33 and further comprising forming spaced-apart source and drain regions of a second conductivity type in the semiconductor layer and the layer of silicon.
- 35. (Previously Presented) The method of claim 30 wherein the semiconductor layer is deposited.
- 36. (Previously Presented) The method of claim 35 and further comprising forming spaced-apart source and drain regions of a second conductivity type in the semiconductor layer.
- 37. (Previously Presented) The method of claim 35 and further comprising forming a layer of silicon free from germanium and carbon on the semiconductor layer before the remaining portion of the first material is removed, the layer of insulation material contacting a top surface of the layer of silicon.
- 38. (Previously Presented) The method of claim 37 and further comprising forming spaced-apart source and drain regions of a second conductivity type in the semiconductor layer and the layer of silicon.